FIG. 1

Inventor: Travis D. Fox, et al.
Docket No.: STL10244/40046.191USU1
Title: AUTOMATED ANALYSIS OF INTERFACE TIMING MEASUREMENTS
Attorney Name: David D. Wier
Phone No.: (303) 357-1647
Sheet 2 of 6

FIG. 2

Inventor: Travis D. Fox, et al.
Docket No.· STL10244/40046.191USU1
Title: AUTOMATED ANALYSIS OF INTERFACE TIMING MEASUREMENTS
Attorney Name: David D. Wier
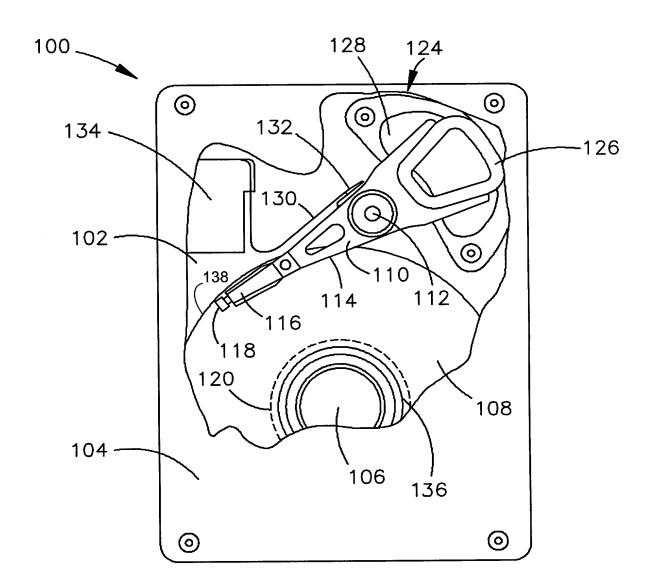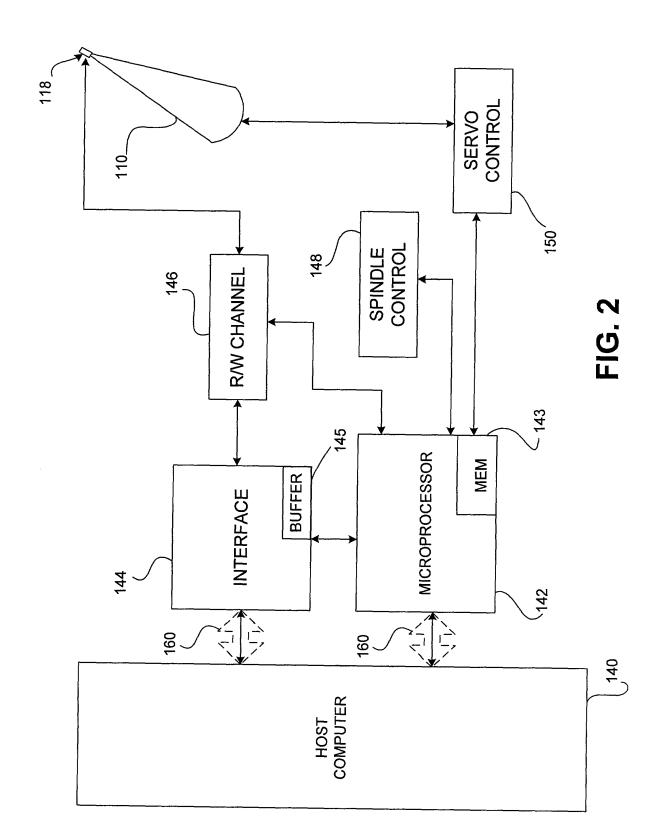Phone No.: (303) 357-1647
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140

160

100

320

Host Computer (Initiator)

Disc Drive (Target)

Report

310

308

Timing Measure Analysis Tool

Time Measure Protocols

304

316

Bus Analyzer

Timing Measure Conditions

312

306

Timing Event Analysis Module

Binary Log File

314

Library for Bus Analyzer

300

FIG. 3

Inventor: Travis D. Fox, et al.
Docket No.: STL10244/40046.191USU1
Title. AUTOMATED ANALYSIS OF INTERFACE TIMING MEASUREMENTS
Attorney Name: David D. Wier
Phone No.: (303) 357-1647
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FIG. 4

Inventor: Travis D. Fox, et al.
Docket No.: STL10244/40046.191USU1
Title: AUTOMATED ANALYSIS OF INTERFACE TIMING MEASUREMENTS
Attorney Name: David D. Wier
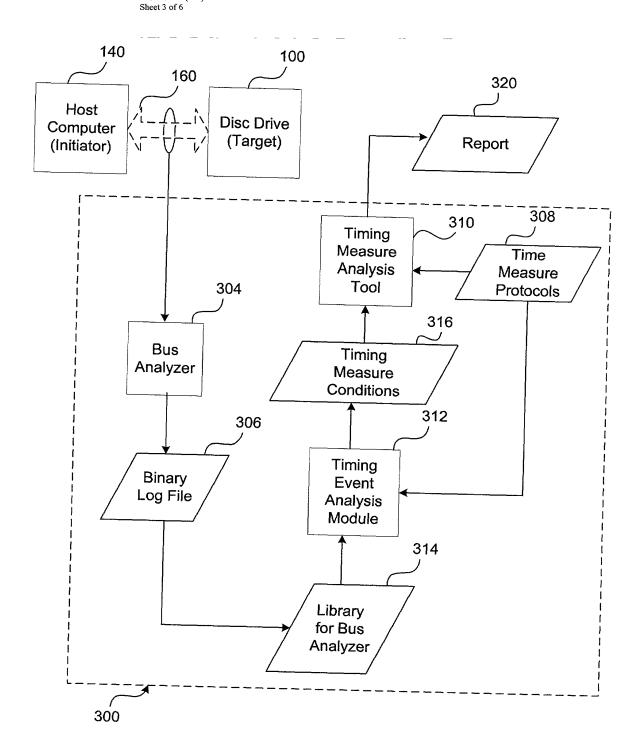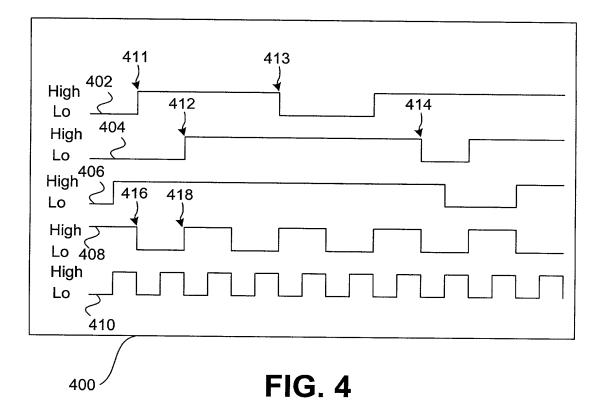Phone No.: (303) 357-1647
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502

Start

504

500

Read Bus Trace

506

Detect Timing Measure

508

Log Timing Measure

510

Continue Reading Bus Trace

Yes

512

Detect Timing Measure?

FIG. 5

No

514

Calculate Timing Measure Type Statistics

516

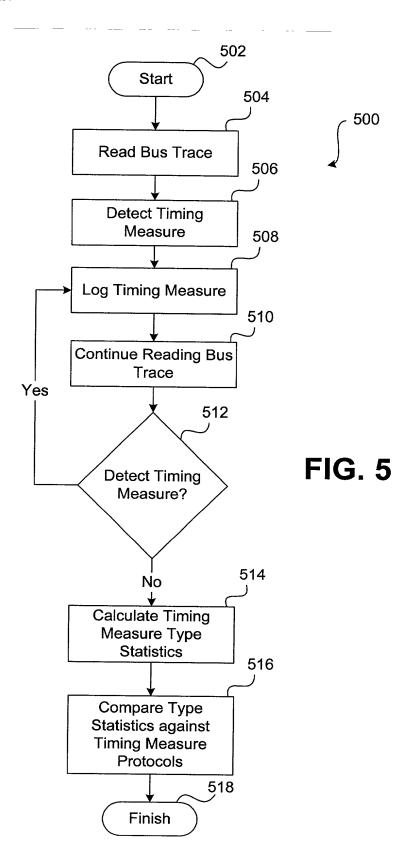Compare Type Statistics against Timing Measure Protocols

518

Finish

Inventor: Travis D. Fox, et al.
Docket No.: STL10244/40046.191USU1
Title: AUTOMATED ANALYSIS OF INTERFACE TIMING MEASUREMENTS
Attorney Name: David D. Wier
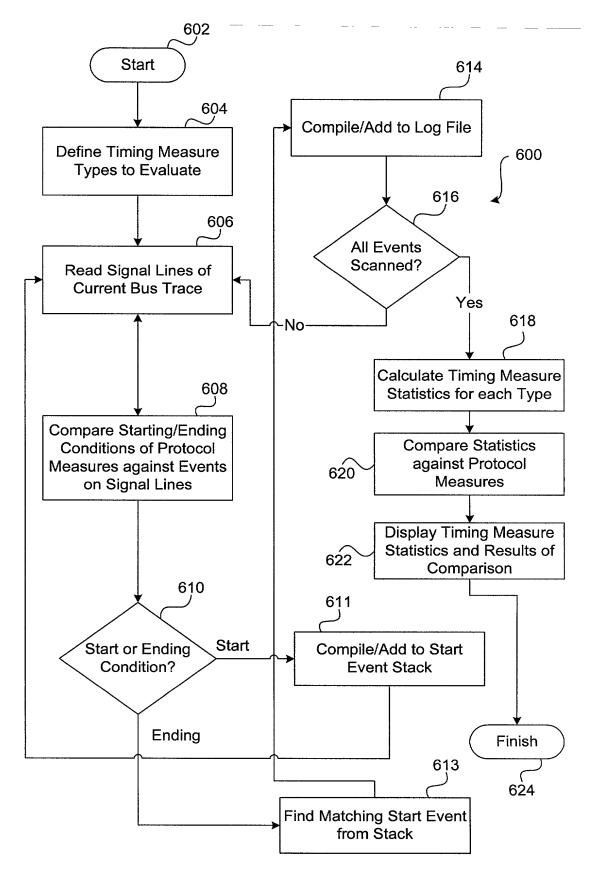Phone No.: (303) 357-1647
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602
Start

604
Define Timing Measure Types to Evaluate

606
Read Signal Lines of Current Bus Trace

608
Compare Starting/Ending Conditions of Protocol Measures against Events on Signal Lines

610
Start or Ending Condition?

611
Start → Compile/Add to Start Event Stack

Ending

613
Find Matching Start Event from Stack

614
Compile/Add to Log File

600

616
All Events Scanned?

No

Yes

618
Calculate Timing Measure Statistics for each Type

620
Compare Statistics against Protocol Measures

622
Display Timing Measure Statistics and Results of Comparison

624
Finish

FIG. 6